Cooperative Processing Data Bases Juzar Hasta, Gupta Technologies Inc.

Abstract

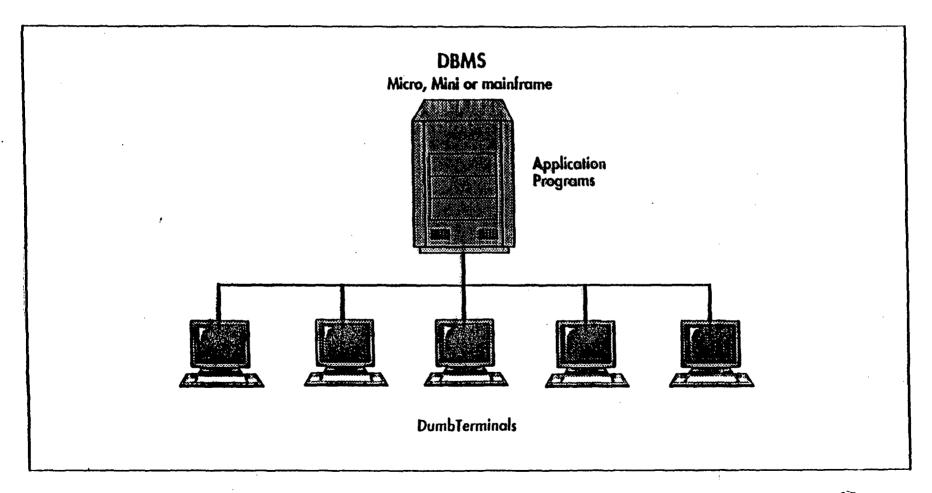
This presentation will be about cooperative processing for the 90's using client-server technology; concepts of downsizing from mainframes and minicomputers to workstations on a LAN will be the main theme.

Graphical Front-Ends for SQL Back-Ends

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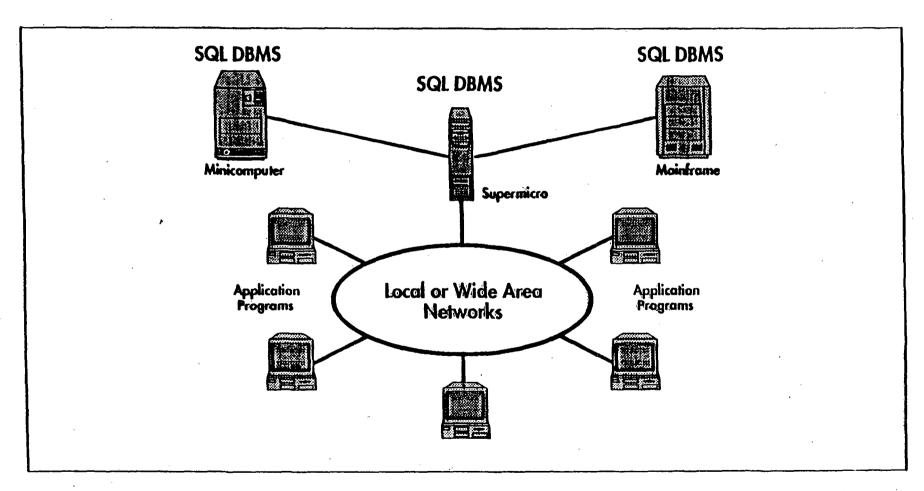


Traditional Online Applications





Cooperative Processing Applications





SQL Cooperative Processing

When application programs run on PC workstations but transparently access SQL databases which reside on mainframes, minis, or micro based data servers.



Graphical Front-Ends for SQL Back-Ends

What makes an application graphical?



Elements of a Graphical Application

- Bit Map Graphics
- Dialog Boxes
- Point Devices
- Windows & Scroll Bars
- Color & Fonts
- Text & Graphics



Graphical Programming for SQL

- Visual display of code
- Point & click drawing of objects
- Events & messages
- Procedural actions
- Explicit SQL coding
- Reusuable functions
- Animated debugging



Graphical Front-Ends for SQL Back-Ends

Graphical programming for Windows and OS/2 PM



End-User Graphical Tools

- Primarily for decision support
- Ad-hoc query and reporting
- SQL must be invisible
- Integration with spreadsheets/WP
- Easy application generation



PC DBMS Software in the Nineties

Software

Graphical PC tools for SQL databases

PC LAN client/server SQL systems

Enterprise-wide PC to SQL cooperative processing

Benefits

Improved people productivity

Downsize from minis and mainframes

True integration of PCs into corporate data processing



Future of Graphical Interfaces

- Most PCs will go graphical within 3 to 5 years.
- Windows and OS/2 PM will be the dominant graphical environments.
- Graphical Front-Ends will drive Cooperative-Processing applications.
- Programmer tools will become more sophisticated, yet simpler.
- End-User tools will become more powerful.



The Significance of SQL

- SQL makes it possible to develop LAN database servers.
- SQL enables development of engine-independent application tools.
- SQL provides unified access to micro, mini, and mainframe databases.

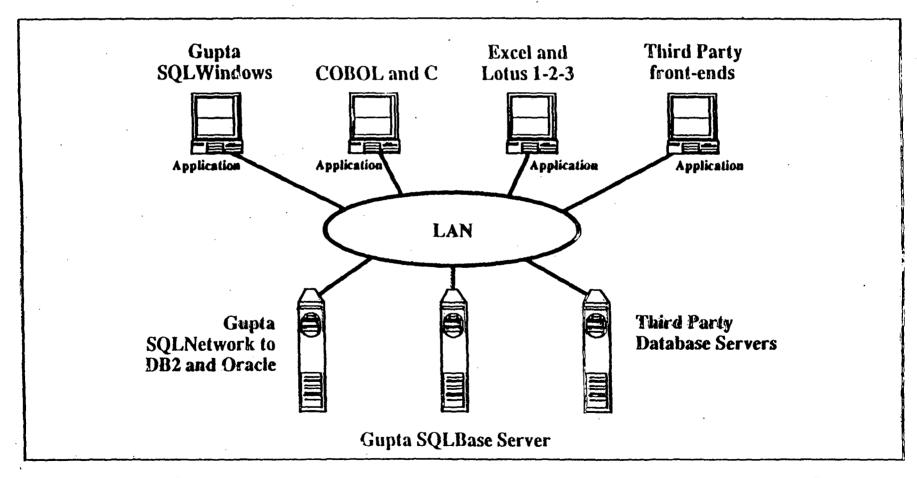


We Open Windows to SQL

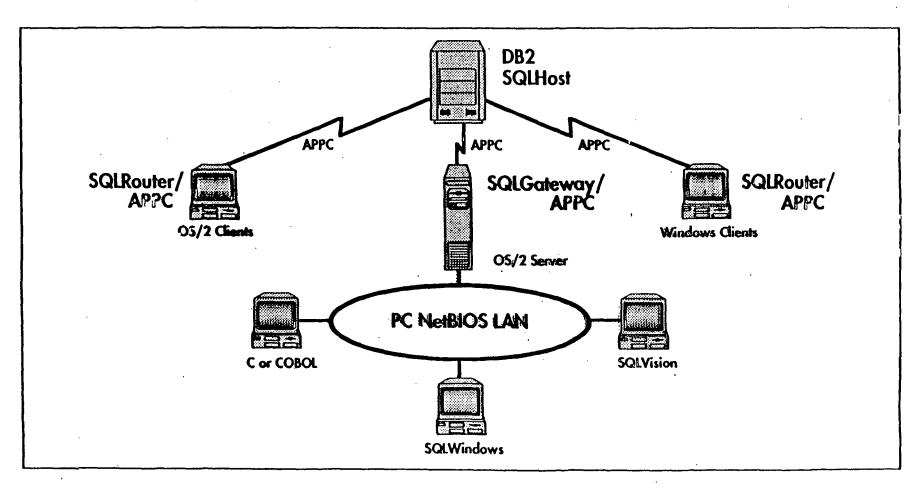
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Gupta

Gupta SQL System

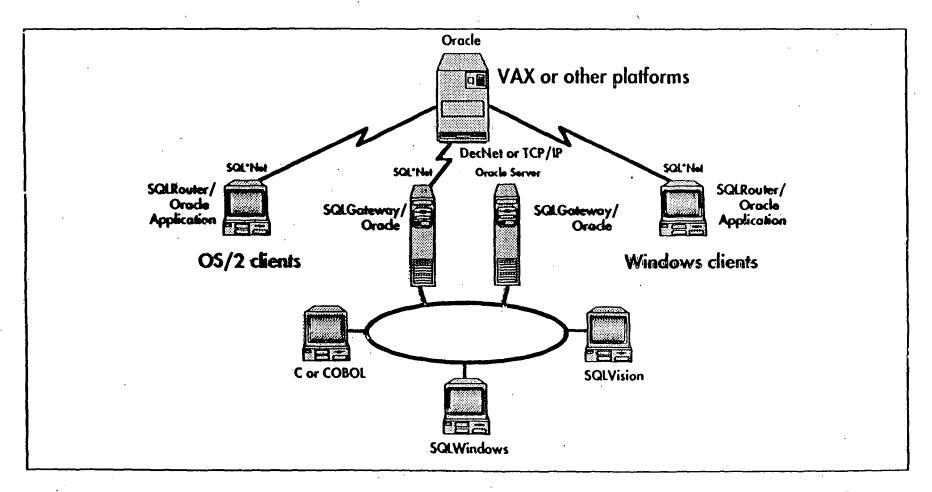


PC to DB2 Connectivity with SQLNetwork

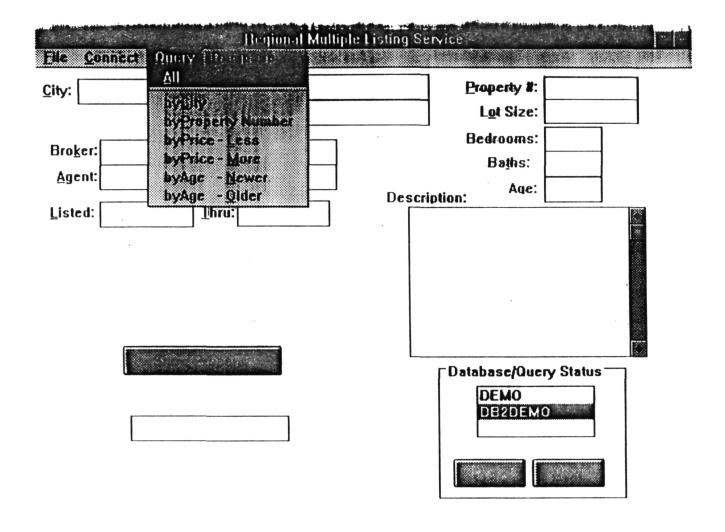


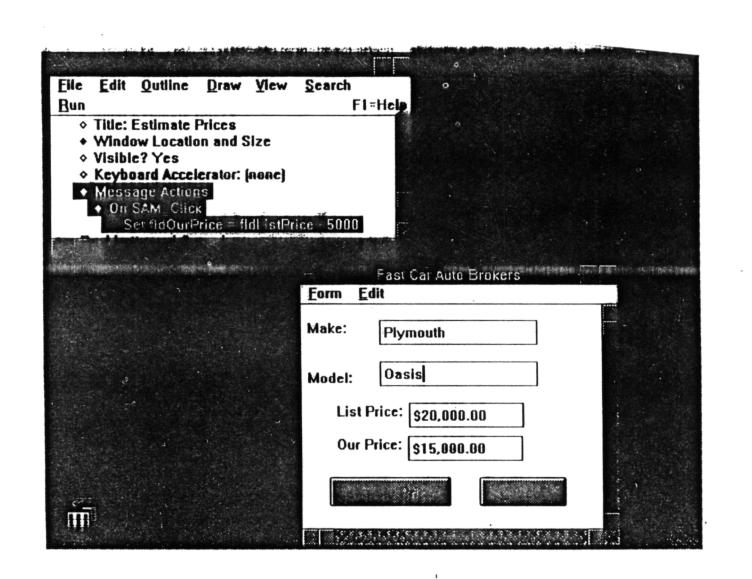


SQLNetwork for Oracle

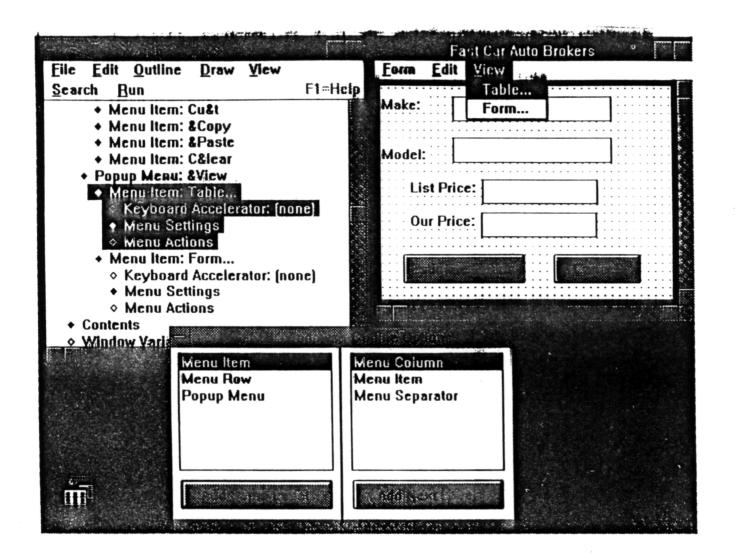




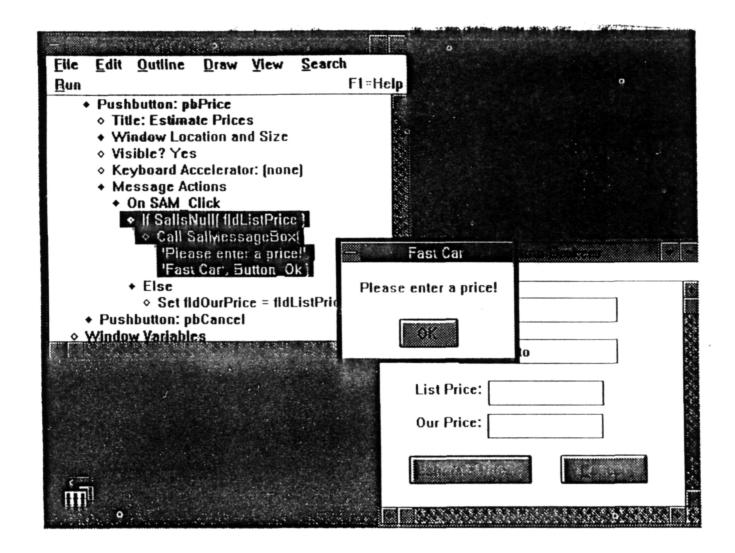




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